USSR: Adjusting to the US Grain Embargo

An Intelligence Assessment

Foreign

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ER 81-10040 February 1981

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An Intelligence Assessment

Research for this report was completed on 7 January 1981.

This report was prepared by USSR
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This report was coordinated with the National
Intelligence Officer for the USSR and the Office of
Political Analysis. 25X1

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	USSR: Adjusting to the US Grain Embargo	25X1		
Key Judgments	The impact of the US grain embargo on the US tially lessened by Moscow's ability to find alters the United States actually cut back on grain exprojected when the embargo was announced. Cowere able to replace half of the 17 million tons of United States in the Long-Term Agreement (LT ber 1980 The embargo reduced Soviet grain imports in than expected 36 million to 28 million tons, which tight feed situation. It reduced grain available for percent—assuming no equivalent drawdown in scient to produce 650,000 tons of pork (carcass we percent of meat production in 1979. To soften the however, the Soviets by drawing down stocks we grain fed to livestock to 2 percent and in meat production in 1981 livestock production in 1981 livestock production in 1981 livestock production in 1981 livestock production of over 40 million tons of grain during Such a high level of import is not feasible. Whether or not the US partial embargo is continuable to obtain enough grain in world markets—in the United States—to import during the year enequal to their current handling capacity of 34 m more than in 1979/80. Support for the embargo to the point where availability of non-US grain we difficulty purchasing 2-3 million tons of soybean some US origin from West European firms. Sho the Soviets would take additional quantities of U offered, and probably would defer or cancel delifrom other origins. Such a move would enable M carry grain, thereby reducing shipping costs and ports.	native sources of grain. Only ports; Argentina refused to ain to the Soviets than onsequently, the Soviets of grain denied them by the TA) year ending 30 Septem-25X1 The LTA year 1979/80 from a exacerbated an already or feed by roughly 8 stocks—or an amount suffiveight), equal to about 4 he impact of the sanctions, ere able to hold the drops in roduction to 3 percent. The on grain imports in 1980/81 80. We estimate that to fin would require the ling the 1980/81 LTA year. 25X1 The Soviets should be including 8 million tons from adding 30 September 1981 willion tons—6 million tons among our allies has eroded will be less of a problem for soviets should have no as and products, including buld the embargo be lifted, US corn and soybeans, if very on similar quantities aloscow to use larger ships to		

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Per capita production of meat in calendar year 1981 will be down for the consecutive year. Meat production is forecast to be no larger, and possibly smaller, than last year, when it dropped 3 percent below 1979. Prior to the embargo we had projected no drop in 1980 meat production. The dominant problem for Soviet meat production in 1981 is a second successive bad harvest of grain and other feeds. A continuation of the US partial embargo on grain would have little effect.

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USSR: Adjusting to the	
US Grain Embargo	25X1
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Introduction	
In January 1980, following the Soviet intervention in	of Agriculture (USDA) officials offered them 25 mil-
Afghanistan, the United States and its major allies	lion tons of wheat and corn in the year ending 30
adopted a package of economic denial measures	September 1980. almost immedi-
against the USSR. The denial measure that shocked	ately indicated the Soviets would take all the US grain
the Soviet Union the most and since has been the most	offered (including some barley), plus about 10 million tons of non-US grain, and 2.5 million tons of soybeans
controversial was the partial embargo placed on grain shipments by the United States and cooperating ex-	and meal. The total expected purchases of roughly 38
porters. Differences continue to exist in the media and	million tons during the year ending 30 September 1980
among exporters about the effectiveness of the US	was near the limit of our estimated Soviet annual port
sanctions denying the USSR 17 million tons of US	capacity for handling bulk agricultural commodities.
wheat and corn in the US-USSR Long-Term Agree-	25X1
ment (LTA) year ending September 1980.	Maximizing imports and drawing down stocks would
In an effort to clarify the grain embargo's impact, this	have softened, but not eliminated the adverse impact of
paper traces our preembargo estimate of Soviet grain	the production shortfall on livestock goals. Supplies of
import intentions through the US postembargo period	grain for feed still would have been below require-
and analyzes its effectiveness. It covers the embargo's	ments. 25X1
impact on (1) 1979/80 grain imports for July/June and October/September marketing years, (2) the live-	US Sanctions Imposed 4 January 1980
stock sector, and (3) port congestion. The probable	The unilateral suspension of US agricultural exports to
effects on Soviet grain imports and meat production of	the USSR on 4 January 1980 was targeted at the
lifting the US grain sanctions in early 1981 are also	important and highly vulnerable livestock sector of the
discussed.	Soviet economy. It immediately denied the USSR 17
Soviet Grain Import Needs, 1979/80	million tons of grain, 1.2 million tons of soybeans and meal, and smaller quantities of poultry scheduled for
In the fall of 1979 Moscow expected to use large grain	delivery in the LTA year ending 30 September 1980.
imports and drawdown of stocks to soften the impact of	The trade sanctions imposed several restrictions on US
a poor grain harvest on the livestock sector. A disas-	exporters:
trous 179-million-ton grain crop and poor forage crops implied a very large deficit (in the 50-60 million ton	• The remainder of the 8 million tons of wheat and corn allowed but not shipped as of 4 January had to
range) relative to requirements to maintain herds and	leave US ports by 1 April 1980
flocks, and fulfill livestock production goals for 1980.	• Export licenses were required to ship grain to the 25X1
• Carryover stocks from the 1978 crop were very roughly	USSR.
estimated to be about 20 million tons.	• It was illegal to sell the Soviets US grain not licensec25X1
· By mid-September rel-	under the 8-million-ton limit through a third country. 25X1
atively large Soviet purchases of non-US grain and	• Processed agricultural products made in foreign
Soviet interest in being permitted to buy considerably	countries from US raw products could not be sold to
more than 8 million tons of US grain permitted under	the USSR, for example, soymeal made from US
the upcoming LTA year beginning 1 October 1979.	soybeans.
The confirmation of Soviet intentions to launch a	• Non-US grain could not be sold by US traders to the USSR. (This restriction was rescinded last June.)
massive grain import program surfaced at the October US-USSR grain consultations when US Department	25X1
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To make the US embargo effective, US officials after imposing the embargo met with representatives of other major grain exporter nations on 12 January to obtain their cooperation. None of the exporters—Argentina, Australia, Canada, and the EC—agreed to cut back grain sales to the Soviets but stated they would not replace directly or indirectly the 17 million tons of US wheat and corn denied. In turn, the United States agreed not to increase sales to other exporters' traditional markets. Because commodities other than grain were not discussed, no agreement was reached on sales of oilseeds, meal, and livestock products. Subsequent discussions with the exporter governments concerning their actions to control grain exports to the USSR made it clear that Argentina was not going to cooperate. Moreover, the other exporters could not be pinned down on specific export ceilings, but only on "traditional or historic levels." This turned out to mean a level as large as or larger than in any other previous year.

The exporters, including Argentina, agreed to participate in monitoring grain trade to the USSR. They have met regularly with US officials to exchange information on new sales, measures taken to control exports to the USSR, and actual shipping data. The EC has not cooperated in providing transshipping data through north European ports, citing commercial secrets as the reason.

CIA and USDA estimated that in the marketing year ending 30 September 1980, the Soviets could probably replace 12-15 million of the denied 17 million tons of grain if major exporting countries failed to support the US embargo and 6-9 million tons if exporters cooperated with the United States. Considerably less grain was available in the marketing year ending 30 June 1980 because of the shorter time the Soviets had to arrange new chartering and shipping schedules to move large quantities of Argentine corn and soybeans available from the April harvest.

Sanctions Reduced Soviet Grain Imports, 1979/80. We estimate that Soviet grain imports in the 1 October 1979-30 September 1980 year totaled nearly 28 mil-

lion tons, as shown in table 1. This amount fell 8.4 million tons short of preembargo expectations. Imports included 8.4 million tons of US grain and 19.2 million tons from other origins. Without the suspension, we had expected the United States to export about 26 million tons and other suppliers 10 million tons to the USSR. Thus, the Soviets have been able to make up only about half of the 17 million tons of US grain embargoed—at the high end of the 6-9 million ton range we estimated last January.

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Estimated imports in the 1 July 1979-30 June 1980 marketing year (MY 1980) were larger at nearly 31 million tons but still 6 million tons below preembargo projections. US exports at 15 million tons were nearly 7 million tons larger, however, than during the October/September year (see table 2). This reflects the large US grain shipments during July-September 1979, before the LTA year began on 1 October 1979 and the year in which the sanctions applied.

Circumvention of Embargo. We have no evidence that large amounts of US grain were diverted through third countries to the USSR. Based on incomplete information we estimate that 500,000 tons of US grain could have gone that route—divided between Romania and northern European transshipping operations. Similar quantities of US soybeans and meal were probably transshipped through northern European ports.

The press—both domestic and foreign—has contributed to some confusion regarding the effectiveness of the embargo because import statistics differ between the marketing and the LTA years. The usual marketing year for grain begins 1 July and the years under the LTA begin 1 October. It was under the agreement year beginning 1 October 1979 that we denied the Soviets 17 million tons of US wheat and corn. Some published reports have incorrectly chosen to use the July/June year statistics to show that US exports greatly exceeded the 8 million tons agreed to under the sanctions. The marketing year ending 30 June is normally used to analyze availability of grain for livestock feeding.

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Table 1 Million Metric Tons

USSR: Grain Imports a

Exporters	LTA Years, 1 October – 30 September						
	1976/77	1977/78	1978/79	1979/80		1980/81	
				Estimated	Preembargo Forecast	Forecast	Actual Sales or Agreements to Date
Total	8.79	21.38	20.32	27.64 b	36.0	34.1	29.0
United States	6.1	14.8	15.3	8.40	25.9 c	8.0	8.0
Canada	1.5	2.7	1.9	4.30	2.4	6.5	6.5
Australia	0.5	0.3	0.6	4.40	3.0	3.5	3.3
European Community			0.2	1.60	0.6	2.1	1.5 d
Argentina	0.23	3.2	1.6	6.00	3.0	10.0	7.0
Eastern Europe	0.4 °	0.22 °	0.7 °	1.80	0.9	1.8	0.8
Thailand			0.02	0.10		0.4	0.4
South Africa				0.10			
Sweden				0.30	0.2	0.6	0.4
Turkey				0.10	,	0.2	0.1
New Zealand				0.04			
Brazil	0.06	0.16	100100 1000100 100100				
Spain						1.0	1.0

a Excluding rice.

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Reports from Western Europe claiming large amounts of US grain were transshipped through Eastern Europe are exaggerated and unsubstantiated. Larger East European imports were needed to support livestock production goals because of a shortfall in their 1979 harvests. We estimate that less than a million tons out of Eastern Europe's total import of 17 million tons—3 million more than 1978/79—were used to replace exports of domestic grain and transshipments to the USSR.

About 75 percent of the estimated 8.6 million tons of grain replacement came from Argentina, Canada, and Australia (see table 1). Shipments to the USSR in 1979/80 were a record for all of the major exporters except Canada. The other 25 percent was imported

from a number of exporters, including Sweden, Thailand, Eastern Europe, and France. 25X1

Embargo Imposed Logistic Constraints. The US sanctions added to logistical constraints on the quantity of imported grain and oilseeds the USSR could handle in 1979/80. We estimate the throughput capacity of the ports was reduced by several million tons. Thus, even if more non-US grain had been available, it is doubtful the Soviets could have imported much more than the 25X1 estimated 30 million tons (including soybeans) they were able to purchase during the LTA year 1979/80.

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b Including an assumed but undocumented 500,000 tons received through diversion.

c Including 900,000 tons of barley.

d Including wheat flour and 500,000 tons mixed feed, at least 65 percent of which is grain.

^e Calculated from calendar year statistics.

Million Metric Tons

Table 2

USSR: Grain Imports a 1 July-30 June

Exporters	1978/79	1979/80 Preliminary	1980/81 Forecast	1980/81 Sales and Agreement b
Total c	15.1	30.7	30.8	29.0
Argentina	1.4	5.1	8.0	7.0
United States	11.1	15.3	8.0	8.0
Canada	2.0	3.4	5.9	5.9
Australia	0.1	4.0	3.5	3.9
EC	0.2	1.0	1.8	1.3 d
Eastern Europe	0.2	1.5	1.5	0.8
Spain	0	0	1.0	1.0
Sweden	0	0.2	0.5	0.4
Thailand	0	0.1	0.4	0.6
Turkey	0	0	0.2	0.1
South Africa	0	0.1	0	0

^a Excluding 0.5 million tons of rice.

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Prior to the embargo, CIA estimated the annual Soviet grain-handling capacity of its major ports at 36 million tons. Adding 2-4 million tons for imports to minor ports and by rail gives a total of 38-40 million tons.2 Suspending shipments of over 18 million tons of US grain, soybeans, and meal, which would have moved in large bulk ocean carriers, forced the Soviets to buy from a larger number of suppliers who were unable to sustain the same scale of grain movements. The shift away from US deepwater ports substantially increased the number of smaller ships arriving in Soviet ports. For example, because of draft limits roughly twice as many ships are needed to move the same quantity of grain out of Argentine ports. Congestion existed at most ports during 1980, with berth throughput rates down and turnaround times up. The increased use of transshipment facilities in Western Europe, which required the use of large numbers of coasters, also added to congestion in Baltic ports.

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Impact of Sanctions on Soviet Livestock Sector. The consequences of reducing grain imports from 36 million to less than 28 million tons because of the embargo have fallen most heavily on the livestock sector. Because port capacity limited imports, even without the embargo the poor 1979 grain and forage crops would have forced the Soviets to make adjustments. Meat production in 1980 probably would have shown no increase, and a downward adjustment in growth of livestock inventories also would have been needed to match the reduced feed base. However, the embargo worsened the situation by further limiting grain imports.

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The 8.4 million tons of grain denied the Soviets by the embargo would have resulted in roughly an 8-percent reduction in grain available for feed, assuming it was not replaced from stocks. Expressed in another way, this was enough to produce roughly 650,000 tons of pork (carcass weight), equivalent to 4 percent of meat output in 1979. Because of a large stock drawdown, however, the total grain available for feeding only dropped an estimated 2 percent in 1979/80. The short feedgrain supplies actually impinged on the livestock sector in three ways—a lower meat and milk output, lower animal weights, and slower growth in herd numbers.

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Meat production in 1980 came to 15.1 million tons—3 percent less than last year and 4 percent below the sharply reduced plan of 15.7 million tons. Livestock inventories at yearend 1980 were roughly equal to those of a year earlier because of a determined campaign to sustain herds in the socialized sector. Poultry is probably the only category that showed much increase in numbers and product output over last year. Given official data for egg production, the poultry sector undoubtedly received priority in the distribution of concentrated feed supplies because of its relatively high efficiency in converting feed into products.

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See appendix for discussion of Soviet port and transport capabilities for handling grain

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b As of 25 January 1981.

^c Because of rounding, components may not add to totals shown.

d Including wheat flour.

Outlook for 1980/81 Soviet Grain Imports

Following a second successive poor grain harvest, the USSR will try to import as much grain as possible during 1980/81 to hold down losses in the livestock sector. A 1980 grain harvest of 189 million tons will leave the Soviets far short of requirements.³ We also believe Soviet dependence on imports is much greater than a year ago because of smaller grain stocks and a poor potato crop. The estimated large stock drawdown in 1979/80 probably has reduced operating stocks to a dangerously low level by Soviet standards.⁴ Additional drawdowns this year may be tempered by Moscow's likely concerns over the uncertain outlook for the 1981 winter grain crop and Western threats of new grain embargo action over Poland.

We expect Moscow to import about 34 million tons of grain in the current LTA year ending September 1981, more than 6 million tons above 1979/80, even if the US partial embargo continues. Imports will be limited more by port and internal transport constraints than by Moscow's ability to buy grain in world markets, especially if Argentina has a good coarse grain harvest this spring. Although grain supplies are tight, the willingness of the Soviets to pay premium prices should attract all the non-US grain they can handle. Moscow also should have no difficulty purchasing some 2-3 million tons of soybeans and meal. So far we estimate the Soviets have purchased or agreed to purchase some 29 million tons of grain and 2 million tons of soybeans, soymeal, and manioc.

The continued effectiveness of the partial US embargo on grain exports is being rapidly eroded by increased sales from other exporting countries and by the Soviet ability to circumvent some of the logistical constraints present during the last LTA year. Only Australia and the EC of the major exporters are cooperating with the United States to hold exports at last year's level, but both planned to review this policy after 20 January. US diplomatic representations that the embargo was

we estimate a deficit of roughly 40 million tons exists it; (1)
livestock herds are not reduced, (2) no additions to grain stocks are
made, (3) livestock production is maintained at current levels, and
(4) no decrease occurs in nonfeed uses of grain.
'The USSR holds an unknown quantity of strategic stocks of grain
to supply their military forces and civilian consumers in time of war

The USSR holds an unknown quantity of strategic stocks of grain to supply their military forces and civilian consumers in time of war. This is in addition to operating and buffer stocks accumulated or drawn down in years of good and bad harvest, respectively

important as a continuing sign of disapproval to the
Russians have been undercut by the signing of the US-
China grain agreement. Both Canada and Australia
regard that agreement as a violation of the US pledge
not to increase grain sales to their traditional markets
during the embargo.

In the marketing year ending 30 June 1981 (MY 1981), the 12-month period normally used to analyze feed availability, Soviet grain imports will be limited to about 31 million tons plus 2-3 million tons of oilseeds and bulk feeds or roughly the same as MY 1980. This reduced level of grain import compared to the 34 million tons projected for the LTA year ending 30 September 1981 reflects the continued adverse im- 25X1 pact of January's partial embargo on both availability of grain from non-US sources and congestion at Soviet ports in the July-December 1980 period. Nonetheless, we expect Moscow to contract for delivery in MY 1981 for more than the 31 million tons of grain they can handle logestically to ensure adequate supplies should unforeseen shipping delays by selected exporters develop. The USSR has already purchased 29 million tons of grain plus 2 million of soybeans and bulk feeds 25X1 for delivery by 30 June 1981.

Lifting the Embargo

Should the United States lift the partial embargo on grain this month, the Soviets could help ease port congestion by rescheduling larger bottoms to move it and stretch out or reduce deliveries of Argentine grain. 25X1 For the same reason, if no longer embargoed US soybean meal would be imported directly rather than transshipped or processed through West European suppliers. These measures would have little impact on

During this period we estimate that a total of only 17 million tons of
grain, soybeans, and meal were unloaded at Soviet ports or trans-
ported by rail from Europe. Without the embargo we expected the
USSR to import upwards of 20 million tons in this period. Thus
another 17 million tons will have to be imported in the first half of
1981 to achieve our total estimate of 33-34 million tons for MY
1981 25X1
We believe the Soviet ports will be hard pressed to handle more than
17 million tons of grain and oilseeds during January-June 1981. This
period includes the usually severe winter months of January-March
that normally reduce the number of active Baltic ports, slows
offloading operations, and disrupts rail transport. For the first time, 25X1
the Soviets have chartered six grain ships with ice cutters in an
apparent effort to maximize imports this winter through Baltic ports.
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total imports in the first half of 1981, but by the third
quarter of the year they might ease the port problem
enough to raise grain import potential by some 2
million tons. The railroad system hauling grain away
from the ports, however, would have to be assigned a
higher priority to move the additional grain to interior
locations.

livestock herds to decline, we believe 1981 meat production would equal roughly the 1980 level of 15.1 million tons. Alternatively, should the Soviets attempt to maintain herds on the assumption of a return to normal grain crops in 1981, meat production could drop to 14.5 million tons, or 4 percent. If the United States rescinded the partial embargo on grain, another 100,000 tons of meat might be produced in 1981 from the net increase in imported grain.

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Moscow would be more interested in additional quantities of US corn rather than wheat. We would expect Moscow to purchase immediately for nearby delivery several million tons of corn, if made available, and cut back or delay shipments of Argentine wheat and possibly sorghum. Shifting to US grain could substantially reduce Moscow's costs by lowering shipping charges and largely eliminating current high premiums being paid for non-US grain.

Meat shortages will be serious during 1981 with or without an embargo. Moscow can be expected to be active in international markets for large meat imports to help fill the gap. We estimate that Soviet meat imports reached at least 700,000 tons in calendar year 1980—a record—and could approach 1 million tons this year.

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Impact of Continued Embargo on Livestock Sector, 1981

Following a second successive poor grain crop—estimated at 189 million tons—the Soviet feedgrain problem will be worse this marketing year. The use of grain stocks will be limited by the large drawdown last year necessitated to a large extent by the embargo. Given the level of projected grain imports for 1980/81, as outlined above, and no stock drawdown, we estimate that grain available for feed use could be down roughly 5 to 10 percent from a year ago. If the Soviets allow

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Appendix

Transport Constraints on Soviet Grain Imports

In addition to external grain market conditions, the amount of grain that can be imported annually by the USSR is constrained by three key transportation factors:

- The capacity of Soviet ports to offload grain.
- The limited ability of the internal Soviet transportation network—primarily the railroads—to haul the grain from the ports to storage areas.
- Soviet grain storage capacity.

Soviet Port Capacity

We estimate that Soviet ports have the capacity to handle as much as 36 million tons ⁷ of grain imports annually under normal conditions. The four main Soviet ports—Odessa, Leningrad, Ilichevsk, and Novorossiysk—have a combined annual capacity to import grain in excess of 18 million tons. Imports above this rate were observed for short periods during 1973, 1975, and recently when grain imports reached historic peaks. We also know of 14 other Soviet ports that have been used to unload grain and these are factored into our total estimate (see table A-1).

The task of handling large quantities of grain up to port capacity is difficult. The Soviets have a barely adequate inventory of excess railroad cars to move grain imports inland and have had difficulty in developing efficient transportation schedules from the port to internal storage areas. Moreover, the entire Soviet rail system suffers from poor management.

The USSR's major grain ports are currently working the same number of ships as during the peak periods of past lifts, but are operating at reduced efficiency. The maximum number of berths currently used for grain is near historic highs, but the average load delivered is

- Total number of berths used for grain imports at 18 ports.
- Average grain unloading rate.
- · Ship turnaround time and average deliveries.
- Port working hours (assumes two eight hour shifts and a 240-day work year).

Table A-1

USSR: Unloading Capacity at Grain Ports

	Maximum Number of Berths Used for Grain	Average Daily Unloading Rate per Berth (Metric Tons)	Total Daily Grain Unloading Capacity (Tons)	
Total	73		150,250	
Black Sea	36		79,500	
Odessa	8	2,500	20,000	
Novorossiysk	7	2,500	17,500	
Ilichevsk	7	2,500	17,500	25X1
Nikolayev	3	1,750	5,250	
Tuapse	3	1,750	5,250	Acceptant to
Kherson	3	1,750	5,250	
Poti	2	1,750	3,500	
Zhdanov	2	1,750	3,500	
Batumi	1	1,750	1,750	
Baltic Sea	31		60,250	
Leningrad	8	2,500	20,000	
Kaliningrad	6	1,750	10,500	_
Klaipeda	5	1,750	8,750	_
Riga	4	1,750	7,000	
Ventspils	3	1,750	5,250	-
Baltiysk	3	1,750	5,250	⁻ 25 X 1
Tallinn	2	1,750	3,500	
Pacific Ocean	6		10,500	
Nakhodka	3	1,750	5,250	
Vladivostok	3	1,750	5,250	
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down while turnaround time is up (see table A-2). 25X1 There are several factors contributing to this inefficient performance:

The US embargo, which has forced Moscow to increase grain imports from Argentina. Such imports must move on smaller ships due to draft restrictions at Argentine grain ports compared to Gulf ports. This has increased the number of ships that now must be handled at Soviet ports to deliver a given quantity of grain and has led, in some cases, to longer turnaround times.

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⁷ To estimate grain handling capacity at Soviet ports, the following factors were considered:

Table A-2

Soviet Grain Ports: Average Load and Turnaround Time

	Load (Thousand Metric Tons)	Turnaround Time (Number of Days)	Turnaround Time (In Days, During Peak Imports)
1973	24.7	15.5	22.7
1975	32.0	19.7	35.9
1979	31.1	18.7	_
1980 (January- November)	18.1	21.4	

- Continued problems in the USSR with railcar availability, especially those designed to carry grain.
- Increased transshipment of grain on Soviet account in Antwerp, Hamburg, and Rotterdam for delivery by small coastal vessels to river and sea ports in the Soviet Baltic area, which has increased congestion there.
- Ongoing Soviet labor and management problems in coordinating the grain import program.

Internal Transportation Constraints

The Soviet transportation system moves a large volume of grain annually in conjunction with the domestic harvest and the distribution of imported grain. The overwhelming share is transported by rail—the primary mode of transportation in the Soviet Union; some 93 percent of all grain tonnage was shipped by rail in 1975 while only 6 percent was transported on the rivers.

Until the early-to-mid-1970s, when nearly all economic activity was concentrated west of the Urals, railroads were able to handle the increased demand for freight and passenger services along with the growth of the Soviet economy. In recent years, however, the continued growth of the economy, the geographical shift in demand for longer haul freight services as Soviet dependence on Siberian resources has increased, and the relative neglect of the railroads in the allocation of investment resources have severely strained the capacity and flexibility of the rail system. Shocks to the rail system, such as surges in demand for rail transport services in connection with larger grain imports and transit traffic to Iran have resulted in disruptions, delays, and temporary embargoes.

While the Soviet rail system serving the grain ports has sufficient capacity to handle more than the 36 million tons of grain that the ports can handle, the actual operation of the rail system is stretched so tightly that any additional strain would lead to further deterioration in performance. The current strains in the system are reflected in several ways:

- Railcar turnaround time is increasing rapidly, leading to inefficient fleet utilization.
- Labor productivity on the railroads is declining.
- Train speeds are slowing.
- The annual rate of increase in traffic hauled is stagnating.

Only by enhanced rail productivity (decreased turnaround time, increased average loads, shorter average length of haul), improved management (particularly more efficient scheduling and allocation of railcars and locomotives), and by not moving low-priority items or assigning these to other transport modes can the rail system relax some of its tautness and be able to accept the movement of additional grain.

Moscow must make a decision on economic priorities for this to occur. If the internal grain supply situation becomes critical enough, we feel that the Soviets will divert nonessential trade and allocate the required transport assets to do so. The drawback to such an undertaking, however, would be disruptions to the domestic economy

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